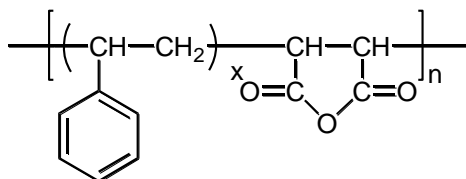


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**Technical Data Sheet: SMA<sup>®</sup> 1000**

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**STYRENE MALEIC ANHYDRIDE COPOLYMER**



**DESCRIPTION**

SMA<sup>®</sup> 1000 is a low molecular weight styrene, maleic anhydride copolymer with an approximately 1:1 mole ratio. SMA 1000 is available in flake or powder form. SMA 1000 can be utilized to modify melt flow, improve coupling, and to better disperse fillers and pigments in thermoplastics. It also offers improved impact and heat distortion temperature properties in thermoplastic materials.

**PERFORMANCE PROPERTIES**

High heat resistance  
High gloss  
Excellent surfactant  
High reactivity  
High resolubility

**SUGGESTED APPLICATIONS**

Emulsion polymerization  
Overprint varnishes & Inks  
Textile treatment  
Leather treatment  
Carpet cleaners  
Adhesives  
Polymer modification  
Strippable coatings

<p><b>SMA<sup>®</sup> 1000</b> <b>TYPICAL PHYSICAL AND CHEMICAL PROPERTIES</b></p>
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Appearance	Off-white flake or powder
Acid Number, mg KOH/gm	480
Color, Gardner scale	1
Tg, °C	155
Resin Molecular Weight, M <sub>n</sub>	2000
Resin Molecular Weight, M <sub>w</sub>	5500
Kinematic Viscosity, cts	0.70
Non-volatiles, % min.	99
Solubility, gms./100 ml solvent at 25 °C	
n-Hexane	<1
Toluene	<1
Ethanol – 190 proof	<1
Acetone	>50
MEK	>50
THF	>50
Ethyl Acetate	>50

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